# RAW SEQUENCE LISTING

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Application Serial Number: 09/512,568
Source: IFW16
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# *ENTERED*

RAW SEQUENCE LISTING
PATENT APPLICATION *US/09/512,568*



**This Raw Listing contains the General Information Section and up to the first 5 pages.**

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                                SEQUENCE LISTING

(1)    General Information:
     (i) APPLICANT: Hein, Mich B.
                    Hiatt, Andrew C.
                    Ma, Julian K.C.
     (ii) TITLE OF INVENTION: TRANSGENIC PLANTS EXPRESSING ASSEMBLED
                              SECRETORY ANTIBODIES
    (iii) NUMBER OF SEQUENCES: 26
     (iv) CORRESPONDENCE ADDRESS:
          (A) ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
          (B) STREET: 10666 North Torrey Pines Road, TPC-8
          (C) CITY: La Jolla
          (D) STATE: California
          (E) COUNTRY: US
          (F) ZIP: 92037
      (v) COMPUTER READABLE FORM:
          (A) MEDIUM TYPE: Floppy disk
          (B) COMPUTER: IBM PC compatible
          (C) OPERATING SYSTEM: PC-DOS/MS-DOS
          (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
     (vi) CURRENT APPLICATION DATA:
          (A) APPLICATION NUMBER: US/09/512,568
          (B) FILING DATE: 24-FEB-2000
-->       (C) CLASSIFICATION: <Unknown>
    (vii) PRIOR APPLICATION DATA:
          (A) APPLICATION NUMBER: US/09/199,534
          (B) FILING DATE: 25-Nov-1998
          (A) APPLICATION NUMBER: 08/642,406
          (B) FILING DATE: <Unknown>
          (A) APPLICATION NUMBER: US 07/427,765
          (B) FILING DATE: 27-OCT-1989
   (viii) ATTORNEY/AGENT INFORMATION:
          (A) NAME: Logan, April C.
          (B) REGISTRATION NUMBER: 33,950
          (C) REFERENCE/DOCKET NUMBER: 184.2
     (ix) TELECOMMUNICATION INFORMATION:
          (A) TELEPHONE: (619) 554-2937
          (B) TELEFAX: (619) 554-6312
(2) INFORMATION FOR SEQ ID NO: 1:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 18 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
     (ii) MOLECULE TYPE: DNA (genomic)
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(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
CCTTGACCGT AAGACATG 18

(2) INFORMATION FOR SEQ ID NO: 2:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 22 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
AATTCATGTC TTACGGTCAA GG 22

(2) INFORMATION FOR SEQ ID NO: 3:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 33 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
TGTGAAAACC ATATTGAATT CCACCAATAC AAA 33

(2) INFORMATION FOR SEQ ID NO: 4:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 45 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
ATTTAGCACA ACATCCATGT CGACGAATTC AATCCAAAAA AGCAT 45

(2) INFORMATION FOR SEQ ID NO: 5:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 42 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
GGGGAGCTGG TGGTGGAATT CGTCGACCTT TGTCTCTAAC AC 42

(2) INFORMATION FOR SEQ ID NO: 6:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
CCATCCCATG GTTGAATTCA GTGTCGTCAG 30

(2) INFORMATION FOR SEQ ID NO: 7:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 45 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
CTGCAACTGG ACCTGCATGT CGACGAATTC AGCTCCTGAC AGGAG 45

(2) INFORMATION FOR SEQ ID NO: 8:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 42 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
CCTGTAGGAC CAGAGGAATT CGTCGACACT GGGATTATTT AC 42

(2) INFORMATION FOR SEQ ID NO: 9:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 75 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(iii) HYPOTHETICAL: NO
(iv) ANTI-SENSE: NO
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
GAATTCATTC AAGAATAGTT CAAACAAGAA GATTACAAAC TATCAATTTC ATACACAATA 60
TAAACGATTA AAAGA 75

(2) INFORMATION FOR SEQ ID NO: 10:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 90 amino acids
(B) TYPE: amino acid

153 (D) TOPOLOGY: linear
154 (ii) MOLECULE TYPE: peptide
155 (v) FRAGMENT TYPE: N-terminal
156 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
157 Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
158 1 5 10 15
159 Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln
160 20 25 30
161 Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe
162 35 40 45
163 Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
164 50 55 60
165 Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
166 65 70 75 80
167 Ser Leu Asp Leu Lys Arg Asp Val Val Leu
168 85 90
169
170 (2) INFORMATION FOR SEQ ID NO: 11:
171 (i) SEQUENCE CHARACTERISTICS:
172 (A) LENGTH: 90 amino acids
173 (B) TYPE: amino acid
174 (D) TOPOLOGY: linear
175 (ii) MOLECULE TYPE: peptide
176 (v) FRAGMENT TYPE: N-terminal
177 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
178 Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
179 1 5 10 15
180 Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu Asp Glu Thr Ala Gln
181 20 25 30
182 Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp Leu Glu Gly Asp Phe
183 35 40 45
184 Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
185 50 55 60
186 Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
187 65 70 75 80
188 Ser Leu Asp Leu Lys Arg Glu Val Glu Leu
189 85 90
190
191 (2) INFORMATION FOR SEQ ID NO: 12:
192 (i) SEQUENCE CHARACTERISTICS:
193 (A) LENGTH: 16 amino acids
194 (B) TYPE: amino acid
195 (D) TOPOLOGY: linear
196 (ii) MOLECULE TYPE: peptide
197 (v) FRAGMENT TYPE: N-terminal
198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
199 Met Glu Leu Asp Leu Ser Leu Pro Leu Ser Gly Ala Ala Gly Gly Thr
200 1 5 10 15
201
202 (2) INFORMATION FOR SEQ ID NO: 13:
203 (i) SEQUENCE CHARACTERISTICS:
204 (A) LENGTH: 31 base pairs
205 (B) TYPE: nucleic acid

206 (C) STRANDEDNESS: single
207 (D) TOPOLOGY: linear
208 (ii) MOLECULE TYPE: DNA (genomic)
209 (iii) HYPOTHETICAL: NO
210 (iv) ANTI-SENSE: NO
211 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
212 ACCAGATCTA TGGAATGGAC CTGGGTTTTT C 31
213
214 (2) INFORMATION FOR SEQ ID NO: 14:
215 (i) SEQUENCE CHARACTERISTICS:
216 (A) LENGTH: 30 base pairs
217 (B) TYPE: nucleic acid
218 (C) STRANDEDNESS: single
219 (D) TOPOLOGY: linear
220 (ii) MOLECULE TYPE: DNA (genomic)
221 (iii) HYPOTHETICAL: NO
222 (iv) ANTI-SENSE: NO
223 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
224 CCCAAGCTTG GTTTTGGAGA TGGTTTTCTC 30
225
226 (2) INFORMATION FOR SEQ ID NO: 15:
227 (i) SEQUENCE CHARACTERISTICS:
228 (A) LENGTH: 31 base pairs
229 (B) TYPE: nucleic acid
230 (C) STRANDEDNESS: single
231 (D) TOPOLOGY: linear
232 (ii) MOLECULE TYPE: DNA (genomic)
233 (iii) HYPOTHETICAL: NO
234 (iv) ANTI-SENSE: NO
235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
236 GATAAGCTTG GTCCTACTCC TCCTCCTCCT A 31
237
238 (2) INFORMATION FOR SEQ ID NO: 16:
239 (i) SEQUENCE CHARACTERISTICS:
240 (A) LENGTH: 30 base pairs
241 (B) TYPE: nucleic acid
242 (C) STRANDEDNESS: single
243 (D) TOPOLOGY: linear
244 (ii) MOLECULE TYPE: DNA (genomic)
245 (iii) HYPOTHETICAL: NO
246 (iv) ANTI-SENSE: NO
247 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
248 AATCTCGAGT CAGTAGCAGA TGCCATCTCC 30
249
250 (2) INFORMATION FOR SEQ ID NO: 17:
251 (i) SEQUENCE CHARACTERISTICS:
252 (A) LENGTH: 30 base pairs
253 (B) TYPE: nucleic acid
254 (C) STRANDEDNESS: single
255 (D) TOPOLOGY: linear
256 (ii) MOLECULE TYPE: DNA (genomic)
257 (iii) HYPOTHETICAL: NO
258 (iv) ANTI-SENSE: NO

**SEQUENCE VERIFICATION REPORT**
PATENT APPLICATION *US/09/512,568*

DATE: 02/14/2006
TIME: 11:29:33

***INPUT SET: S30756.raw***

| Line | Error | Original Text |
|---|---|---|
| 25 | Wrong Classification | (C) CLASSIFICATION: <Unknown> |

**SEQUENCE MISSING ITEM REPORT**
PATENT APPLICATION *US/09/512,568*

DATE: 02/14/2006
TIME: 11:29:33

***INPUT SET: S30756.raw***

< < THERE ARE NO ITEMS MISSING > >

**SEQUENCE CORRECTION REPORT**
PATENT APPLICATION *US/09/512,568*

DATE: 02/14/2006
TIME: 11:29:33

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| Line | Original Text | Corrected Text |
|---|---|---|

**SEQUENCE VERIFICATION REPORT**
PATENT APPLICATION *US/09/512,568*

DATE: 02/14/2006
TIME: 11:29:33

***INPUT SET: S30756.raw***

| Line | Error | Original Text |
|---|---|---|
| 25 | Wrong Classification | (C) CLASSIFICATION: <Unknown> |

**SEQUENCE MISSING ITEM REPORT**
PATENT APPLICATION *US/09/512,568*

DATE: 02/14/2006
TIME: 11:29:33

*INPUT SET: S30756.raw*

< < THERE ARE NO ITEMS MISSING > >

**SEQUENCE CORRECTION REPORT**
PATENT APPLICATION *US/09/512,568*

DATE: 02/14/2006
TIME: 11:29:33

***INPUT SET: S30756.raw***

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